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PTO/SB/21 (08-00)

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		Application Number	10/676,519
		Filing Date	Sep 30, 2003
		First Named Inventor	Ma
		Group Art Unit	2621
		Examiner Name	
Total Number of Pages in This Submission		Attorney Docket Number	MS1-1640US

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Brian S. Hart; 44,421
Signature	
Date	7/8/04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2 Serial No. 10/676,519
Filing Date Sep 30, 2003
3 Confirmation No. 8301
Inventorship Ma et al.
4 Applicant Microsoft Corporation
Group Art Unit 2621
5 Examiner
Attorney's Docket No. MS1-1640US
6 Title: A Contrast-Based Image Attention Analysis Framework

7

8 **INFORMATION DISCLOSURE STATEMENT**

9 *References -- See Attached Form PTO-1449*

10 **REMARKS**

11 The citations listed, copies attached, are submitted in compliance with the
12 duty of disclosure defined in 37 CFR §1.56. The Examiner is requested to make
13 these citations of official record in this application.

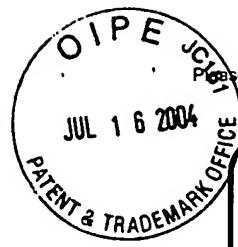
14

15 Date: 7/08/04

16 Respectfully Submitted,

17 By:

18 Brian G. Hart
Reg. No. 44,421



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/676,519
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				Examiner Name	
				Attorney Docket Number	MS1-1640US
Sheet	1	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	2003/0152363			Jeannin et al.	08/14/2003	
	5,442,633			Perkins et al.	08/15/1995	
	5,530,963			Moore et al.	06/25/1996	
	5,625,877			Dunn et al.	04/29/1997	
	5,642,294			Taniguchi et al.	06/24/1997	
	5,659,685			Williams et al.	08/19/1997	
	5,745,190			Ioka	04/28/1998	
	5,751,378			Chen et al.	05/12/1998	
	5,774,593			Zick et al.	06/30/1998	
	5,801,765			Gotoh et al.	09/01/1998	
	5,835,163			Liou et al.	11/10/1998	
	5,900,919			Chen et al.	05/04/1999	
	5,911,008			Niikura et al.	06/08/1999	
	5,920,360			Coleman Jr.	07/06/1999	
	5,959,697			Coleman Jr.	09/28/1999	
	5,990,980			Golin	11/23/1999	
	5,995,095			Ratakonda	11/30/1999	
	6,462,754			Chakraborty et al.	10/08/2002	
	2003/0237053			Chen et al.		

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				Group Art Unit	2621
				Examiner Name	
Sheet	2	of	6	Attorney Docket Number	MS1-1640US

NON PATENT LITERATURE DOCUMENTS					
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		US Patent Application Serial Number 10/371,125 filed February 20, 2003; Inventors: Wei-Ying Ma et al., Entitled "Systems and Methods for Enhanced Image Adaptation" (Attorney Docket MS1-1406US)			
		US Patent Application Serial No 10/286,053 filed November 1, 2002; Inventors; Yu-Fei Ma et al., Entitled "Systems and Methods for Generating a Comprehensive User Attention Model" (Attorney Docket No. MS1-1278US).			
		US Patent Application Serial No. 10/286348 filed November 1, 2002; Inventors Xian-Sheng Hua et al. Entitled "Systems and Methods for Automatically Editing a Video" (Attorney Docket No. MS1-1277US).			
		US Patent Application Serial No. 10/285,933 filed November 1, 2002; Inventors Yu-Fei Ma et al.: Entitled "Systems and Methods for Generating a Motion Attention Mode" (Attorney Docket NO. MS1-1344US).			
		http://www.fatalfx.com/nomad/ "NOMAD (No More Advertising)" February 17, 2003; 4 pages.			
		CHERRY, STEVEN M.; "Pesky Home Networks Trouble Cable Behemoths" IEEE Spectrum, April 2002, pages 60-61			
		HARGROVE, THOMAS; "Logo Detection in Digital Video" Math 100, March 6, 200, http://toonarchive.com/logo-detection/; 9 pages.			
		HELD, GIBERT; "Focus on Agere System's Orinoco PC Card" International Journal of Network Management, May/June 2002, pages 187-193			
		JHA, UMA S.; "Wireless Landscape-Need for Seamless Connectivity" Wireless Personal Communications 2002 pages 275-283			
		LIENHART, R. et al.; "On the Detection and Recognition of Television Commercials" University of Mannheim, 17 pages.			
		LU, LIE et al.; "A Robust Audio Classification and Segmentation Method" Microsoft Research, China, 9 pages.			

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		AHMAD, SUBUTAI; "VISIT: A Neural Model of Covert Visual Attention" Advances in Neural Information Processing Systems, v. 4, 1991, pgs 420-427			
		BALUJA et al.; "Expectation-Based Selective Attention for Visual Monitoring and Control of a Robot Vehicle" Robotics and Autonomous System, v.22 no.3-4, December 1997, pages 329-344			
		DENG et al.; "Peer Group Filtering and Perceptual Color Image Quantization" Proceedings of IEEE International Symposium on Circuits and Systems, Vol. 4, 1999, pages 21-24			
		JING et al.; "An Effective Region-Based Image Retrieval Framework" From ACM Multimedia, 2002, 28 pages			
		LI et al.; "Statistical Learning of Multi-View Face Detection" Proceedings of ECCV, 2002, 25 pages			
		MILANESE R. et al.; "Attentive Mechanisms for Dynamic and Static Scene Analysis" Optical Engineering, v34 no8, August 1995, pages 2428-2434			
		LU, LIE et al.; "Content Analysis for Audio Classification and Segmentation" IEEE Transactions on Speech and Audio Processing, Vol. 10 No. 7, October 2002, pages 504-516.			
		LU, LIE et al.; "Content-Based Audio Segmentation Using Support Vector Machines" IEEE, 2001, pages 956-959.			
		SADLIER, DAVID A.; "Automatic TV Advertisement Detection from MPEG Bitstream" Centre for Digital Video Processing/Research Institute for Network & Communication Eng., Dublin City University, 12 pages.			
		SANCHEZ, JUAN MARIA; "AudiCom: A Video Analysis System for Auditing Commercial Broadcasts" Computer Vision Center Departament d'Informatica Universitat Autonoma de Barcelona, 5 pages.			
		ZABIH, RAMIN; "A Feature-Based Algorithm for Detecting and Classifying Scene Breaks" Computer Science Department, Cornell University, 16 pages.			

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		O'TOOLE, COLIN et al.; "Evaluation of Automatic Shot Boundary Detection on a Large Video Test Suite" School of Computer Applications & School of Electronic Engineering, Dublin City University, Glasnevin Dublin Ireland Challenge of Image Retrieval, Newcastle, 1999, pp.1-12.		
		ITTI et al.; "Computational Modelling of Visual Attention" Nature Reviews/Neuroscience, Vol. 2, March 2001, pp. 1-11.		
		ITTI et al.; "A Comparison of Feature Combination Strategies for Saliceny-Based Visual Attention System" Proc. of SPIE Human Vision and Electronic Imaging IV (HVEI'99), San Jose CA, Vol. 3644, Jan 1999., pp. 473-82		
		ITTI et al.; "A Model of Saliency-based Visual Attention for Rapid Scene Analysis" "IEEE Trans. on Pattern Analysis and Machine Intelligence, 1998, 5 pages.		
		LEE, KEANSUB et al.; "Perception-Based Image Transcoding for Universal Multimedia Access" School of Electrical Engineering Korea University, Seoul Korea ,2001, IEEE, pp. 475-478.		
		T. LIN et al.; "Video Scene Extraction by Force Competition" IEEE Intl. Conference on Multimedia and Expo (ICME 001), Waseda University, Tokyo Japan, August 2001, 4 pages.		
		NIEBUR, E. et al.; "Computational Architectures for Attention" The Attentive Brain, Chapter 9, 1998, pages 163-186		
		SAHOO P.K. et al.; "Threshold Selection Using a Minimal Histogram Entropy Difference" Optical Engineering, v36 no7, July 1997, pages 1976-1981		
		TSOTSOS J. K. et al.; "Modeling Visual Attention Via Selective Tuning" Artificial Intelligence v78 1995 pgs 507-545		
		WOLFE J. M. et al.; "Deploying Visual Attention: The Guided Search Model" AI and the Eye, Chapter 4, 1990, pages 79-103		
		ZADEH L. A.; "Probability Measures of Fuzzy Events" Journal of Mathematical Analysis and Applications, 23, 1968, pgs 421-427		

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		CHEN et al.; "A Visual Attention Model for Adapting Images on Small Displays" ACM Multimedia Systems Journal, 2003,			
		CHEN, JINLIN et al.; "Function-based Object Model Towards Website Adaptation" Proc. of the 10th Int. WWW Conf., 2001, pp. 1-21.			
		CHRISTOPOULOS, CHARILAOS et al.; "The JPEG2000 Still Image Coding System: An Overview" IEEE Transactions on Consumer Electronics, Vol. 46 No. 4, November 2000, pp. 1103-1127			
		GAMAZ et al.; "Robust Scene-Change Detection in MPEG Compressed Domain" Elec & Comp. Eng., 1998, pp. 95-99			
		GU et al.; "Dissolve Detection in MPEG Compressed Video" IEEE, 1997, pp. 1692-1696			
		HENG et al.; "Post Shot Boundary Detection Technique: Flashlight Scene Determination" University of Western Australia, 1999, pp. 447-450			
		LELESCU et al.; "Real-time Scene Change Detection on Compressed Multimedia Bitstream Based on Statistical Sequential Analysis" IEEE, 2000, pp. 1141-1144			
		MA et al.; "A User Attention Model for Video Summarization" Proceedings of ICIP, 2002			
		O'TOOLE; "An MPEG-1 Shot Boundary Detector Using XIL Colour Histograms" Dublin City University, 1998, pp. 1-7			
		YEO et al.; "Rapid Scene Analysis on Compressed Video" IEEE, 1995, pp. 533-544			
		YUSOFF et al.; "Video Shot Cut Detection Using Adaptive Thresholding" University of Surrey, 2000, pp. 1-10			

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